

# FluidGuard™ PG 100

## Industrial Coolant



### Product Information

FluidGuard™ PG 100 is a specially inhibited concentrated propylene glycol product designed for use in closed loop heat transfer systems. FluidGuard™ PG is commonly used in aqueous dilutions from 20 to 50% by volume. At these dilution ranges it offers freeze protection from  $-7^{\circ}\text{C}$  and  $-35^{\circ}\text{C}$  ( $19^{\circ}\text{F}$  and  $-31^{\circ}\text{F}$ ), respectively. The inhibitor system formulated into the FluidGuard™ PG provides excellent corrosion protection for common metals of construction including stainless steel, carbon steel, aluminum, copper, brass, and solder.

Use of FluidGuard™ PG provides for long fluid life, corrosion protection, and leak protection in piping, pumps, valves, fittings, and heating or cooling equipment. Coastal Chemical provides users of our FluidGuard™ products with complete analytical analyses and technical recommendations on fluid quality and applications.

FluidGuard™ PG applications include heating and cooling systems, line heaters, chillers, refrigeration systems, snow melting systems and HVAC systems. FluidGuard™ PG is not suitable for use where contact with food or potable water is possible.

### Typical Physical Properties

Form	Light Red/Pink Liquid
Density at $20^{\circ}\text{C}$ ( $68^{\circ}\text{F}$ )	8.81 lbs/gal (typical)
Flash Point	$102^{\circ}\text{C}$ ( $215^{\circ}\text{F}$ )
Freeze Point, pure	$-55^{\circ}\text{C}$ ( $-67^{\circ}\text{F}$ )
50% water	$-35^{\circ}\text{C}$ ( $-31^{\circ}\text{F}$ )
Boiling Point, pure	$190^{\circ}\text{C}$ ( $374^{\circ}\text{F}$ )
50% water	$105^{\circ}\text{C}$ ( $221^{\circ}\text{F}$ )
pH	11.0
Reserve Alkalinity	11.0 (minimum)
Viscosity, $25^{\circ}\text{C}$ ( $77^{\circ}\text{F}$ )	
Pure	26cp
50% water	5.1
Specific Heat, $60^{\circ}\text{C}$ ( $140^{\circ}\text{F}$ )	.0886 Btu/lb- $^{\circ}\text{F}$
50% water	

FluidGuard™ PG 100 is designed to be used in a diluted form, typically 50% or less with water. The water used to dilute FluidGuard™ PG concentrate should be clean, clear, potable water, low in chloride and hardness. De-ionized or distilled water is ideal to dilute the concentrate. Pre-blended FluidGuard™ PG solutions are available from Coastal.



Coastal Chemical Co., L.L.C., a Brenntag Company

5300 Memorial Drive, Suite 250 • Houston, TX 77007 • Phone: 713-865-8787 • Fax: 713-865-8788

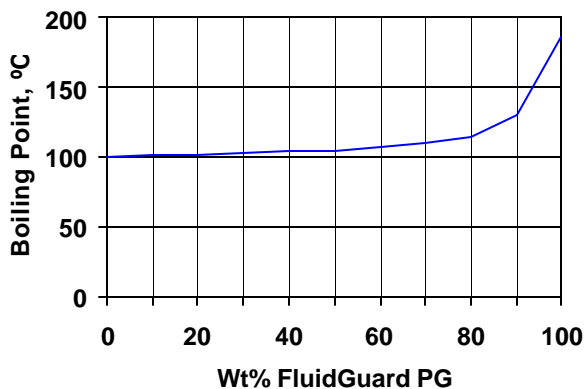
## Safety & Handling Precautions

FluidGuard™ PG 100 is an industrial chemical and should be handled as such. Person(s) working with this product should read and be familiar with safety precautions detailed in the Material Safety Data Sheet on this product prior to use.

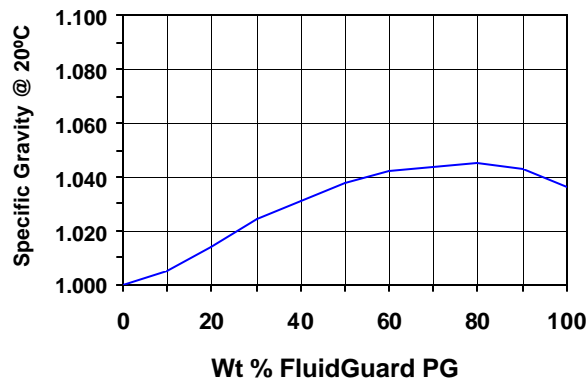
## Physical Properties

FluidGuard™ PG 100 properties versus concentrations with water are illustrated below. Additional properties are available in the brochure, FluidGuard™ PG Physical Properties.

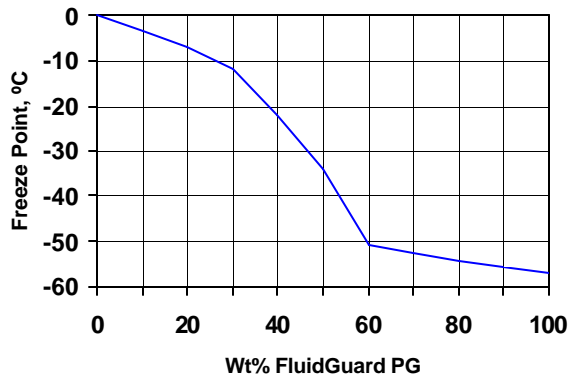
### Boiling Points



### Specific Gravity



### Freeze Points



The data presented in this bulletin are typical only and not specifications. The information and suggested uses are based on evaluations believed reliable. No guarantee or warranties are expressed or implied, however, including the implied warranty of merchantability and fitness for particular purposes. Coastal Chemical Co., LLC disclaims any liability in the use of these data, including possible infringement of patent.

Revised, 1-3-2005



Coastal Chemical Co., L.L.C., a Brenntag Company

5300 Memorial Drive, Suite 250 • Houston, TX 77007 • Phone: 713-865-8787 • Fax: 713-865-8788